## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2003/001395

<del></del>	•								
A	CLASSIFICATION OF SUBJECT N	MATTE	CR .	·					
Int. Cl. 7:	Н01L 39/16, Н02Н 9/02								
According to	International Patent Classification (IPC	or to b	oth national classification and IPC						
В.	FIELDS SEARCHED								
Minimum doc	umentation searched (classification system fo	llowed	by classification symbols)						
Documentation .	n searched other than minimum documentation	on to the	extent that such documents are included in the fields sear	ched					
DWPL: IPC	H01L 39/-, H02H 3/-, 7/-, 9/-, H01C	7/-, H	e of data base and, where practicable, search terms used) DIF 6/-, 36/- & keywords: SUPERCONDUCTO COIL, AC, DC, PHASE and similar terms	OR, HTS					
C.	DOCUMENTS CONSIDERED TO BE R	ELEVA	INT ,						
Category*	Citation of document, with indication,	Relevant to claim No.							
<b>x</b> .	DE 19851047 A (JOO YONG SEC See whole document, especially F	1-6, 9, 10							
Y	GB 2321137 A (GEC ALSTHOM LIMITED) 15 July 1998 See whole document, especially Fig.1								
Y	EP 984462 A (OXFORD INSTRU See whole document, especially Fi	TS (UK) LIMITED) 8 March 2000	1-6, 9, 10						
F	urther documents are listed in the co	ntinuat	tion of Box C X See patent family am	ıex					
"A" docume which is relevance "E" carlier a	pplication or patent but published on or	"T"	later document published after the international filing d and not in conflict with the application but cited to und or theory underlying the invention document of particular relevance; the claimed invention considered novel or cannot be considered to involve an	erstand the principle cannot be					
"L" document which may throw doubts on priority "Y" d claim(s) or which is cited to establish the publication date of another citation or other special w			when the document is taken alone locument of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art						
"O" documen	nt referring to an oral disclosure, use, on or other means	"&"	document member of the same patent family						
P" docume	nt published prior to the international filing later than the priority date claimed		·						
	al completion of the international search		Date of mailing of the international search report	15 JAN 2004					
	ng address of the ISA/AU	-	Authorized officer						
AUSTRALIAN PATENT OFFICE O BOX 200, WODEN ACT 2606, AUSTRALIA -mail address: pct@ipaustralia.gov.au acstmile No. (02) 6285 3929			BAYER MITROVIC Telephone No: (02) 6283 2164						

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Box I	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This in	ternational search report has not been established in respect of certain claims under Article 17(2)(a) for the following s:
1.	Claims Nos:
ŧ	because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos:  because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos:
:	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box II	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
See	additional sheet
	•
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
<b>3.</b> .	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-6, 9 and 10
Remark	on Protest
	No protest accompanied the payment of additional search fees.

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Supplemental Box

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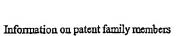
(To be used when the space in any of Boxes I to VIII is not sufficient)

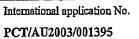
## Continuation of Box No: II

Following groups of invention were found:

- 1. Claims 1-6, 9, 10 Superconducting current limiting device having high magnetic permeability structure, central core, superconductive coil surrounding central core and first and second alternating current coils magnetically coupled to central core.
- 2. Claims 7, 8 and 11 Multistage superconducting current limiter comprising first and second current limiter to limit first and second portion of a transient fault.
- 3. Claim 12 Multiphase superconducting current limiter requiring only one cryostat, one cryocooler and one superconducting coil.
- 4. Claims 13 and 14 A DC saturated superconducting current limiter including an air gap in the iron core.

These groups are not so linked as to form a single general inventive concept, that is, they do not have any common inventive features, which define a contribution over the prior art. The common concept linking together these groups of claims is generic superconductive current limiting device. However this concept is not novel in the light of above cited documents.





This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member .						
DE	19851047			NONE		•		
GB	2321137			NONE				
EP	0984462	JP	2000102161	US	6300856	US	2002017974	